RAW SEQUENCE LISTING PATENT APPLICATION US/09/585,023

DATE: 06/15/2000 TIME: 06:39:55

INPUT SET: S35611.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2 3	(1) G	eneral Information:
4	(1)	cholde information.
5 6	(i)	APPLICANT: Dalla-Favera, Riccardo
7 8 9	(ii)	TITLE OF INVENTION: IDENTIFICATION OF GENES ALTERED IN MULTIPLE MYELOMA
10	(iii)	NUMBER OF SEQUENCES: 17
11 12 13 14 15 16 17	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Cooper & Dunham LLP (B) STREET: 1185 Avenue of the Americas (C) CITY: New York (D) STATE: New York (E) COUNTRY: U.S.A. (F) ZIP: 10036
19 20 21 22 23 24	(v)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25 26 27 28 29 30	(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: (B) FILING DATE: 1-JUNE-2000 (C) CLASSIFICATION:
31 32 33 34 35	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: White, John P. (B) REGISTRATION NUMBER: 28,678 (C) REFERENCE/DOCKET NUMBER: 50995-B
36 37 38 39 40	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (212) 278-0400 (B) TELEFAX: (212) 391-0525
41	(2) INFO	RMATION FOR SEQ ID NO:1:
42 43 44 45 46	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single
10		(0) 011411001100. 0411910

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48 49		(ii)	MOL	ECULI	E TY	PE:)	pept:	ide									
50				·			-										
51 52							•										
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54		(xi)	SEQ	UENC	E DES	SCRI	OITG	N: S	EQ II	ОИС	:1:						
55 56		Lvs	Leu	Arg	Gln	Trp	Leu	Ile	Asp	Gln	Ile	Asp	Ser	Glv	Lvs	Tvr	Pro
57		1				5			-		10	-		-	•	15	
58 59		Clar	Lou	Val	Trn	Glu	λan	Glu	Clu	Lvc	Cor	Tlo	Dho	λνα	Tlo	Dro	Two
60		Giy	пец	Val	20	Giu	ASII	Giu	Giu	ду 5 25	261	TTE	File	Arg	30	PIO	тър
61				_				_				_	_		_		
62 63		Lys	His	Ala 35	Gly	Lys	Gln	Asp	Tyr 40	Asn	Arg	Glu	Glu	Asp 45	Ala	Ala	Leu
64				33					40					43			•
65		Phe		Ala	Trp	Ala	Leu		Lys	Gly	Lys	Phe		Glu	Gly	Ile	Asp
66 67			50					55					60				
68		Lys	Pro	Asp	Pro	Pro	Thr	Trp	Lys	Thr	Arg	Leu	Arg	Cys	Ala	Leu	Asn
69		65					70					75		-			80
70 71		Lva	Ser	Asn	Agn	Phe	Glu	Glu	Leu	Val	Glu	Δra	Ser	Gln	T.e.11	Δan	Tle
72		цуз	DCI	ASII	App	85	Giu	Olu	пси	Vai	90	AL 9	561	0111	пси	95	110
73		_	_	_	_			_	_			_					
74 75	•	Ser	Asp	Pro	1yr 100	гуs	Val	Tyr	Arg	11e 105	Val	Pro	GIu				
76					100					103							
77	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	ID NO	0:2:									
78 79		(i)	SEO	JENCI	S CH	ARAC	TERTS	STICS	S :								
80		, ,	_) LEI	NGTH	: 10	B am:	ino a		3							
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82 83			(C)				SS: s linea		re								
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85		(ii)	MOL	ECULI	TYI	PE:]	pepť:	ide									
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90 91		(XI)	SEQ	JENC	s De:	SCRI.	PIIOI	N: 51	eÕ II	טא כ	: 2 :						
92		Lys	Leu	Arg	Gln	Trp	Leu	Ile	Asp	Gln		Asp	Ser	Gly	Lys		Pro
93		1				5					10					15	
94 95		Glv	Leu	Val	Trp	Glu	Asn	Glu	Glů	Lys	Ser	Val	Phe	Arq	Ile	Pro	Trp
96		4			20					25				3	30		-
97 98		Larg	Hic	Ala	Glv.	Lare	Glr	Δen	Тъгъ	Δαη	Δτα	Glu	Glu	Δαν	בו∆	Δla	T _i eu
98		пλя	птэ	35	GTÅ	пур	GTII	чэр	1 y L 4 0	HSII	Arg	Giu	GIU	45	TIG	AIG	LCu

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100													INI	PUT S	ET: S	35611.1
100 101 102 103	Phe	Lys 50	Ala	Trp	Ala	Leu	Phe 55	Lys	Gly	Lys	Phe	Arg 60	Glu	Gly	Ile	Asp
104 105 106	Lys 65	Pro	Asp	Pro	Pro	Thr 70	Trp	Lys	Thr	Arg	Leu 75	Arg	Cys	Ala	Leu	Asn 80
107 108 109	Lys	Ser	Asn	Asp	Phe 85	Glu	Glu	Leu	Val	Glu 90	Arg	Ser	Gln	Leu	Asp 95	Ile
110 111 112	Ser	Asp	Pro	Tyr 100	Lys	Val	Tyr	Arg	Ile 105	Val	Pro	Glu				
113	(2) INFO	RMAT]	I NO	FOR S	SEQ :	ID NO	0:3:									
114 115 116 117 118 119	(i)	SEQU (A) (B) (C) (D)	LEN TYI	NGTH: PE: 6 RANDI	: 108 amino EDNES	TERIS am: c ac: SS: s lines	ino a id sing:	acids	3							
120 121 122 123 124	(ii)	MOLE	ECULI	TYI	PE: p	pept:	ide									•
125 126 127	(xi)	SEQU	JENCI	E DES	SCRI	OITS	N: SI	EQ II	ON C	:3:						
128 129 130	Arg 1	Met	Arg	Pro	Trp 5	Leu	Glu	Met	Gln	Ile 10	Asn	Ser	Asn	Gln	Ile 15	Pro
131 132 133	Gly	Leu	Ile	Trp 20	Ile	Asn	Lys	Glu	Glu 25	Met	Ile	Phe	Gln	Ile 30	Pro	Trp
134 135 136	Lys	His	Ala 35	Ala	Lys	His	Gly	Trp 40	Asp	Ile	Asn	Lys	Asp 45	Ala	Cys	Leu
137 138 139	Phe	Arg 50	Ser	Trp	Ala	Ile	His 55	Thr	Gly	Arg	Tyr	Lys 60	Ala	Gly	Glu	Lys
140 141 142	Glu 65	Pro	Asp	Pro	Lys	Thr 70	Trp	Lys	Ala	Asn	Phe 75	Arg	Cys	Ala	Met	Asn 80
143 144 145	Ser	Leu	Pro	Asp	Ile 85	Glu	Glu	Val	Lys	Asp 90	Gln	Lys	Arg	Asn	Lys 95	Gly
146 147 148	Ser	Ser	Ala	Val 100	Arg	Val	Tyr	Arg	Met 105	Leu	Pro	Pro				
149	(2) INFO	RMAT	ION I	FOR S	SEQ :	ID NO	0:4:									
150 151 152	(i)	SEQU (A)				reris 8 am:			S							

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153 154 155		(C) ST	RAND	amino EDNE: GY:	SS:	sing	l∙e					INI	PUT S	SET: S	35611	. 1
156 157 158	(ii)	MOL	ECUL	E TY	PE:]	pept	ide						•				
159 160					٠												
161 162	(xi)	SEO	TENC	E DES	SCRTI	וחדים	NI SI	EO TI	חוא מ	.4.							
.163	,,																
164 165 166	Arg 1	Met	Arg	Pro	Trp 5	Leu	Glu	Glu	Gln	Ile 10	Asn	Ser	Asn	Thr	Ile 15	Pro	
167 168	Gly	Leu	Lys	Trp 20	Leu	Asn	Lys	Glu	Lys 25	Lys	Ile	Phe	Gln	Ile 30	Pro	Trp	
169 170 171	Met	His	Ala 35	Ala	Arg	His	Gly	Trp	Asp	Val	Glu	Lys	Asp 45	Ala	Pro	Leu	
172 173	Phe	Arg		Trp	Ala	Ile	His		Gly	Lys	His	Gln		Gly	Val	Asp	
174 175		50	_	_			55	_		_		60					
176 177 178	Lys 65	Pro	Asp	Pro	Lys	Thr 70	Trp	Lys	Ala	Asn	Phe 75	Arg	Cys	Ala	Met	Asn 80	
179 180	Ser	Leu	Pro	Asp	Ile 85	Glu	Glu	Val	Lys	Asp 90	Lys	Ser	Ile	Lys	Lys 95	Gly	
181 182 183	Asn	Asn	Ala	Phe	Arg	Val	Tyr	Arg	Met 105	Leu	Pro	Leu					
184 185	(2) TNEO	ייי אייט	TON I	EOD (- Oac	TTS NT/).E.										
186	(2) INFO	KIVIA I .	LOIN	r OR a	SEQ.	LD M);5:								,	-	
187 188 189 190 191	(i)		LEI TYI STI	NGTH PE: 6 RANDI	ARACT : 10 amino EDNES GY: 1	7 am: 5 ac: 5S: 9	ino a id sing:	acida	5								
193 194 195 196 197	(ii)	MOLI	ECULI	E TYI	PE: I	pept:	ide										
198 199	(xi)	SEQ	JENCI	E DES	SCRII	OITq	N: SI	EQ II	ОИС	:5:							
200 201 202	Arg 1	Leu	Arg	Gln	Trp 5	Leu	Ile	Glu	Gln	Ile 10	Asp	Ser	Ser	Met	Tyr 15	Pro	
203 204 205	Gly	Leu	Ile	Trp 20	Glu	Asn	Glu	Glu	Lys 25	Ser	Met	Phe	Arg	Ile 30	Pro	Trp	

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206		T	77.2	7 J -	G1	T -	G3	3	m .	3	01 -	a.	** . 7				35611.raw
206 207 208		ьys	His	35	GIY	ьys	GIN	Asp	1yr 40	ASII	GIN	Glu	vai	45	АТА	Ser	lle
209 210 211		Phe	Lys 50	Ala	Trp	Ala	Val	Phe 55	Lys	Gly	Lys	Phe	Lys 60	Glu	Gly	Asp	Lys
212 213 214`		Ala 65	Glu	Pro	Ala	Thr	Trp 70	Lys	Thr	Arg	Leu	Arg 75	Cys	Ala	Leu	Asn	Lys
215 216 217		Ser	Pro	Asp	Phe	Glu 85	Glu	Val	Thr	Asp	Arg 90	Ser	Gln	Leu	Asp	Ile 95	Ser
218 219 220		Glu	Pro	Tyr	Lys 100	Val	Tyr	Arg	Ile	Val 105	Pro	Glu					
221 222	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	ID NO	0:6:									
222 223 224 225 226 227 228		(i)	(B)	LEI TYI	NGTH PE: 6 RANDI	: 10° amino	7 am: 5 ac: SS: s	ino a id sing:	acid	3							
229 230 231 232 233		(ii)	MOLI	ECULI	Е ТҮІ	PE: p	pept:	ide									·
234		(xi)	SEQU	JENC	E DES	SCRII	PTIO	N: SI	EQ II	ои о	:6:						
236 237 238		Lys 1	Ļeu	Arg	Asn	Trp 5	Val	Val	Glu	Gln	Val 10	Glu ·	Ser	Gly	Gln	Phe 15	Pro
239 240 241		Gly	Val	Cys	Trp 20	Asp	Asp	Thr	Ala	Lys 25	Thr	Met	Phe	Arg	Ile 30	Pro	Trp
242 243 244		Lys	His	Ala 35	Gly	Lys	Gln	Asp	Phe 40	Arg	Glu	Asp	Gln	Asp 45	Ala	Ala	Phe
245 246 247		Phe	Lys 50	Ala	Trp	Ala	Ile	Phe 55	Lys	Gly	Lys	Tyr	Lys 60	Glu	Gly	Asp	Thr
248 249 250		Gly 65	Gly	Pro	Ala	Val	Trp 70	Lys	Thr	Arg	Leu	Arg 75	Cýs	Ala	Leu	Asn	Lys 80
251 252 253		Ser	Ser	Glu	Phe	Lys 85	Glu	Val	Pro	Glu	Arg 90	Gly	Arg	Met	Asp	Val 95	Ala
254 255 256		Glu	Pro	Tyr	Lys 100	Val	Tyr	Gln	Leu	Leu 105	Pro	Pro					
257 258	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	ID NO	0:7:									

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***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

463 464	(2)	INF	ORMA'	TION	FOR	SEQ	ID 1	NO:1	3:								•
465		(i) SE	QUEN	CE C	HARA	CTER	ISTI	CS:								
466				A) L						rs							
467 468				B) T													
468				C) S' D) T(gre								
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471		(ii) MO:	LECU	LE T	YPE:	oth	er n	ucle	ic a	cid						
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474		(ix		ATURI													
475				A) N													
476 477			()	B) L(JCAT.	ION:	217	15	69								
477																	
479		(xi) SEC	QUEN	ום פי	ESCR:	гртта)N.	SEO :	או חד	7.13						•
480		(201	, 01,	QODI.	J D.	uo cir.		J14.	Jug .	ID IV	J.15	•					
481	GCC.	rgac(CAA (CATG	GTAA	AA C	CCCA'	rctc'	T GC	TAAA	ACTA	CAA	AAAA'	TTA (GCTG	GATGTG	. 60
482																	
483	GTG	GCAG	GGA A	ACCT	GTCA'	rc c	CAGC'	ragt"	T GG	GAGA	CTGA	GGC	AGGA	GAA '	TCGC:	CCGATC	120
484				•													
485	TTG	GGAC	CCA (CCGC'	rgcc(CT C	AGCT	CCGA	G TC	CAGG	GCGA	GTG	CAGA	GCA (CAGC	GGGCGG	180
486		. ~ ~ ~	~~~		~~~~	~~ ~.	~-~~	~~-~									
487	AGGA	ACCCC	CGG (GCGC(3GGC(GC G	3ACG(3CAC(G CG(GGGC					GGC		234
488 489											Met 1	Asn	ьеи	GIU	_	Gly .	
490											1				5		
491	GGC	CGA	GGC	GGA	GAG	TTC	GGC	ATG	AGC	GCG	GTG	AGC	TGC	GGC	AAC	GGG	282
492															Asn		202
493	-	_	•	10			•		15				4	20		- 1	
494																	
495															TAC		330
496	Lys	Leu		Gln	Trp	Leu	Ile	_	Gln	Ile	Asp	Ser	_	Lys	Tyr	Pro	
497			25					30					35				
498 499	ccc	CTC	CTC	TICC	C T C	7 7 C	CAC	CAC	777	אממ	אידור	TTTC	aaa	A TO C	aaa	maa	270
500															CCC Pro		378
501	Giy	40	vai	пр	GIU	ASII	45	Giu	цуз	261	116	50	Arg	116	PIO	пр	
502							13					50					
503	AAG	CAC	GCG	GGC	AAG	CAG	GAC	TAC	AAC	CGC	GAG	GAG	GAC	GCC	GCG	CTC	426
504															Ala		
505	55			_	-	60	_	-		_	65		_			70	
506																	
507															ATC		474
508	Phe	Lys	Ala	Trp		Leu	Phe	Lys	Gly	_	Phe	Arg	Glu	Gly	Ile	Asp	
509					75					80					85		

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510																	
511	AAG	CCG	GAC	CCT	CCC	ACC	TGG	AAG	ACG	CGC	CTG	CGG	TGC	GCT	TTG	AAC	522
512	Lys	Pro	Asp		Pro	Thr	Trp	Lys		Arg	Leu	Arg	Cys		Leu	Asn	
513 514				90					95					100			, ,
514	מממ	አርር	יי א א	GAC	ىلىنلىن	GAG	CAA	CTC	Стт	CAC	ccc	אממ	CAC	CITIC	C A C	3 m/c	F70
516						Glu											570
517	Lyb	DCI	105	1101	1110	Giu	Oiu	110	Val	Olu	лгу	Der	115	пец	Asp	116	
518																	
519	TCA	GAC	CCG	TAC	AAA	GTG	TAC	AGG	ATT	GTT	CCT	GAG	GGA	GCC	AAA	AAA	618
520						Val											
521		120					125					130	-		-	-	
522																	
523						ACC											666
524		Ala	Lys	GIn	Leu	Thr	Leu	Glu	Asp	Pro		Met	Ser	Met	Ser		•
525	135					140					145					150	
526 527	ccc	_{ሞአ} ሮ	אככ	አጥር	አሮአ	ACG	CCT	ጥ አ ር	CCT	TCC	CTC	CCA	aaa	CAC	CAC	CITITI	714
528						Thr											714
529	110	- y -	1111	ricc	155	1111	110	ı y ı	110	160	пси	rio	AIG	GIII	165	vai	
530					100					100					103		
531	CAC	AAC	TAC	ATG	ATG	CCA	CCC	CTC	GAC	CGA	AGC	TĠĠ	AGG	GAC	TAC	GTC	762
532						Pro											
533				170					175	_		_	_	180	-		
534																	
535						CCG											810
536	Pro	Asp		Pro	His	Pro	Glu		Pro	Tyr	Gln	Cys		Met	Thr	Phe	•
537 538			185					190					195				
539	CCA	מממ	ccc	aaa	כאכ	CAC	TCC	רי א א	ccc	CCA	ССТ	du Cada	C 7 7	א א ידי	ccm	maa	0.0
540						His											858
541	0-1	200		017	****		205	0111	O ₁ y	110	1114	210	Olu	ASII	Cly	Cys	
542																	
543	CAG	GTG	ACA	GGA	ACC	TTT	TAT	GCT	TGT	GCC	CCA	CCT	GAG	TCC	CAG	GCT	906
544	Gln	Val	Thr	Gly	Thr	Phe	Tyr	Ala	Cys	Ala	Pro	Pro	Glu	Ser	Gln	Ala	
545	215					220					225					230	
546																	
547						GAG											954
548	Pro	GIY	Val	Pro		Glu	Pro	Ser	Ile		Ser	Ala	Glu	Ala		Ala	
549 550					235					240					245		
551	ጥጥር	тса	GAC	TGC	CGG	CTG	מאכ	ΔΤΟ	TGC	CTG	T'A C'	ጥልሮ	CGG	GAA	λጥC	СТС	1002
552						Leu											1002
553				250	5				255		-1-	-1-	5	260		200	
554																	
555						ACG											1050
556	Val	Lys		Leu	Thr	Thr	Ser		Pro	Glu	Gly	Cys	Arg	Ile	Ser	His	•
557			265					270					275				
558	003	a	7.00	m * ~	a. ~	~~~	n ~ ~	3.7.~	OE-~	a	~~	OE-~	ar		~~~		400-
559 560						GCC											1098
560 561	GTÅ	280	TIIL	TAT	Asp	Ala	285	ASI	ьeu	ASP	GTU	va1 290	ьeu	rne	Pro	ryr	
562		200					200					200					

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563 564 565 566						CAC His 300								CTG	AGC	CAC		1146
567 568 569 . 570						GTC Val												1194
571 572 573 574						AGC Ser												1242
575 576 577 578						AAC Asn												1290
579 580 581 582						TTC Phe												1338
583 584 585 586						AGA Arg 380												1386
587 588 589 590						AGG Arg								His				1434
591 592 593 594						CAA Gln												1482
595 596 597 598						TAC Tyr												1530
599 600 601 602						ATC Ile								TGA	AAA	ΓGT		1579
603 604	CAAC	GATGA	AGT (GTT.	rtct:	TT TT	CCT	TTTT:	r TT	rttt:	TTTT	TTTT	rgat <i>i</i>	ACG (GAGAT	racgg	G 1	639
605	GTCT	rtgc:	rc r (STCTO	CCCA	GG CT	rggao	STGC	A GTO	GACA	CAAT	CTC	AGCT	CAC :	rgtg <i>i</i>	ACCTC	C 1	699
606 607	GCCT	rcc t (GGG :	rtca <i>i</i>	AGAGA	AC TO	CTCC	rgcc:	r cac	GCCT	CCCT	GGT	AGCTO	GGG A	ATTA	CAGGT	G 1	759
608 609	TGAG	GCCA	CTG (CACCO	CACC	CA AC	GACA?	AGTG#	A TTT	rtca:	rtgt	AAA	CATT	rga (CTTT	AGTGA	A 1	819
610 611	AGC	GTCC2	AAT :	rgac:	rgcc(CT CI	TAC	rgtt".	r TG#	AGGA?	ACTC	AGA	AGTG(GAG A	ATTT(CAGTT	C 1	879
612 613	AGC	GGTT	GAG (GAGAZ	ATTG	CG GO	CGAGA	ACAA	G CAT	rgga <i>i</i>	AAAT	CAG	rgac <i>i</i>	ATC :	rgat:	rggcá	G 1	939
614 615	ATG	AGCT".	TAT T	r T CA/	AAAG	GA AC	GGT	GCT:	r TG	CATT	TTCT	TGT	GTTC	rgt 1	AGAC'	rgcca	T 1	999

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616 617	CATTGATGAT	CACTGTGAAA	ATTGACCAAG	TGATGTGTTT	ACATTTACTG	AAATGCGCTC	2059
618 619	TTTAATTTGT	TGTAGATTAG	GTCTTGCTGG	AAGACAGAGA	AAACTTGCCT	TTCAGTATTG	2119
620 621	ACACTGACTA	GAGTGATGAC	TGCTTGTAGG	TATGTCTGTG	CCATTTCTCA	GGGAAGTAAG	2179
622 623 624	ATGTAAATTG	AAGAAGCCTC	ACACGTAAAA	GAAATGTATT	AATGTATGTA	GGAGCTGCAG	2239
625 626	TTCTTGTGGA	AGACACTTGC	TGAGTGAAGG	AAATGAATCT	TTGACTGAAG	CCGTGCCTGT	2299
627 628	AGCCTTGGGG	AGGCCCATCC	CCCACCTGCC	AGCGGTTTCC	TGGTGTGGGT	CCCTCTGCCC	2359
629 630	CACCCTCCTT	CCCATTGGCT	TTCTCTCCTT	GGCCTTTCCT	GGAAGCCAGT	TAGTAAACTT	2419
631 632	CCTATTTTCT	TGAGTCAAAA	AACATGAGCG	CTACTCTTGG	ATGGGACATT	TTTGTCTGTC	2479
633 634	CTACAATCTA	GTAATGTCTA	AGTAATGGTT	AAGTTTTCTT	GTTTCTGCAT	CTTTTTGACC	2539
635 636	CTCATTCTTT	AGAGATGCTA	AAATTCTTCG	CATAAAGAAG	AAGAAATTAA	GGAACATAAA	2599
637 638	TCTTAATACT	TGAACTGTTG	CCCTTCTGTC	CAAGTACTTA	ACTATCTGTT	CCCTTCCTCT	2659
639 640	GTGCCACGCT	CCTCTGTTTG	TTTGGCTGTC	CAGCGATCAG	CCATGGCGAC	ACTAAAGGAG	2719
641 642	GAGGAGCCGG	GGACTCCCAG	GCTGGAGAGC	ACTGCCAGGA	CCCACCACTG	GAAGCAGGAT	2779
643 644	GGAGCTGACT	ACGGAACTGC	ACACTCAGTG	GGCTGTTTCT	GCTTATTTCA	TCTGTTCTAT	2839
645 646	GCTTCCTCGT	GCCAATTATA	GTTTGACAGG	GCCTTAAAAT	TACTTGGCTT	TTTCCAAATG	2899
647 648	CTTCTATTTA	TAGAAATCCC	AAAGACCTCC	ACTTGCTTAA	GTATACCTAT	CACTTACATT	2959
649 650	TTTGTGGTTT	TGAGAAAGTA	CAGCAGTAGA	CTGGGGCGTC	ACCTCCAGGC	CGTTTCTCAT	3019
651 652	ACTACAGGAT	ATTTACTATT	ACTCCCAGGA	TTCAGCAGAA	GATTGCGTTA	GCTCTCAAAT	3079
653 654	GTGTGTTCCT	GCTTTTCTAA	TGGATATTTT	AAATTCATTC	AACAAGCACC	TAGTAAGTGC	3139
655 656	CTGCTGTATC	CCTACATTAC	ACAGTTCAGC	CTTTATCAAG	CTTAGTGAGC	AGTGAGCACT	3199
657 658	GAAACATTAT	TTTTTAATGT	TTAAAAAGTT	TCTAATATTA	AAGTCAGAAT	ATTAATACAA	3259
659 660	TTAATATTAA	TATTAACTAC	AGAAAAGACA	AACAGTAGAG	AACAGCAAAA	AAATAAAAAG	3319
661 662	GATCTCCTTT	TTTCCCAGCC	CAAATTCTCC	TCTCTAAAAG	TGTCCACAAG	AAGGGGTGTT	3379
663 664	TATTCTTCCA	ACACATTTCA	CTTTTCTGTA	AATATACATA	AACTTAAAAA	GAAAACCTCA	3439
665 666	TGGAGTCATC	TTGCACACAC	TTTTCATGCA	GTGCTCTTTG	TAGCTAAACA	GTGAAGATTT	3499
667 668	ACCTCGTTCT	GCTCAGAGGC	CTTGCTGTGG	AGCTCCACTG	CCATGTACCC	AGTAGGGTTT	3559

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					1	NIDUT CET. C25/	11
669	GACATTTCAT	TAGCCATGCA	ACATGGATAT	GTATTGGGCA		<i>NPUT SET: S356)</i> TTTCGTGAAC	3619
670	maa.ama.ma	ma ma ca momm	7 m 7 m 7 m 7 m 7 m 7 m 7 m 7 m 7 m 7 m				2.550
671 672	TGCAGTGATG	TATACATCTT	ATAGATGCAA	AGTATTTTGG	GGTATATTAT	CCTAAGGGAA	3679
673 674	GATAAAGATG	ATATTAAGAA	CTGCTGTTTC	ACGGGGCCCT	TACCTGTGAC	CCTCTTTGCT	3739
675 676	GAAGAATATT	TAACCCCACA	CAGCACTTCA	AAGAAGCTGT	CTTGGAAGTC	TGTCTCAGGA	3799
677 678	GCACCCTGTC	TTCTTAATTC	TCCAAGCGGA	TGCTCCATTT	CAATTGCTTT	GTGACTTCTT	3859
679 680	CTTCTTTGTT	TTTTTAAATA	TTATGCTGCT	TTAACAGTGG	AGCTGAATTT	TCTGGAAAAT	3919
681 682	GCTTCTTGGC	TGGGGCCACT	ACCTCCTTTC	CTATCTTTAC	ATCTATGTGT	ATGTTGACTT	3979
683 684	TTTAAAATTC	TGAGTGATCC	AGGGTATGAC	CTAGGGAATG	AACTAGCTAT	GGAAATAACT	4039
685 686	CAGGGTTAGG	AATCCTAGCA	CTTGTCTCAG	GACTCTGAAA	AGGAACGGCT	TCCTCATTCC	4099
687 688	TTGTCTTGAT	AAAGTGGAAT	TGGCAAACTA	GAATTTAGTT	TGTACTCAGT	GGACAGTGCT	4159
689 690	GTTGAAGATT	TGAGGACTTG	TTAAAGAGCA	CTGGGTCATA	TGGAAAAAAT	GTATGTGTCT	4219
691 692	CCCCAGGTGC	ATTTTCTTGG	TTTATGTCTT	GTTCTTGAGA	TTTTGTATAT	TTAGGAAAAC	4279
693 694	CTCAAGCAGT	AATTAATATC	TCCTGGAACA	CTATAGAGAA	CCAAGTGACC	GACTCATTTA	4339
695 696	CAACTGAAAC	CTAGGAAGCC	CCTGAGTCCT	GAGCGAAAAC	AGGAGAGTTA	GTCGCCCTAC	4399
697 698	AGAAAACCCA	GCTAGACTAT	TGGGTATGAA	CTAAAAAGAG	ACTGTGCCAT	GGTGAGAAAA	4459
699 700	ATGTAAAATC	CTACAGTGGA	ATGAGCAGCC	CTTACAGTGT	TGTTACCACC	AAGGGCAGGT	4519
701 702	AGGTATTAGT	GTTTGAAAAA	GCTGGTCTTT	GAGCGAGGGC	ATAAATACAG	CTAGCCCCAG	4579
703 704	GGGTGGAACA	ACTGTGGGAG	TCTTGGGTAC	TCGCACCTCT	TGGCTTTGTT	GATGCTCCGC	4639
705 706	CAGGAAGGCC	ACTTGTGTGT	GCGTGTCAGT	TACTTTTTTA	GTAACAATTC	AGATCCAGTG	4699
707 708	TAAACTTCCG	TTCATTGCTC	TCCAGTCACA	TGCCCCCACT	TCCCCACAGG	TGAAAGTTTT	4759
709 710	TCTGAAGTGT	TGGGATTGGT	TAAGGTCTTT	ATTTGTATTA	CGTATCTCCC	CAAGTCCTCT	4819
711 712	GTGGCCAGCT	GCATCTGTCT	GAATGGTGCG	TGAAGGCTCT	CAGACCTTAC	ACACCATTTT	4879
713 714	GTAAGTTATG	TTTTACATGC	CCCGTTTTTG	AGACTGATCT	CGATGCAGGT	GGATCTCCTT	4939
715 716	GAGATCCTGA	TAGCCTGTTA	CAGGAATGAA	GTAAAGGTCA	GTTTTTTTG	TATTGATTTT	4999
717 718	CACAGCTTTG	AGGAACATGC	ATAAGAAATG	TAGCTGAAGT	AGAGGGGACG	TGAGAGAAGG	5059
719 720	GCCAGGCCGG	CAGGCCAACC	CTCCTCCAAT	GGAAATTCCC	GTGTTGCTTC	AAACTGAGAC	5119
721	AGATGGGACT	TAACAGGCAA	TGGGGTCCAC	TTCCCCCTCT	TCAGCATCCC	CCGTACC	5176

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DATE: 06/15/2000 TIME: 06:40:40

	INPUT SET: \$350	b11.raw
722 723		
143		_
822	(2) INFORMATION FOR SEQ ID NO:15:	
823		
824	(i) SEQUENCE CHARACTERISTICS:	
825	(A) LENGTH: 152 base pairs	
826	(B) TYPE: nucleic acid	
827	(C) STRANDEDNESS: single	
828	(D) TOPOLOGY: linear	
829		
830	(ii) MOLECULE TYPE: DNA (genomic)	
831		
832		
833		
834	/ / GROUDNER DESCRIPTION OFF TO NO 15	
835	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	٠
836		60
837 838	TTTTCTCTAC AGTCACCTCC CTGTTTACCA AAGATAATCA CAATAAGTCC AGTTTACTTA	60
839	CAAAACAAGT TTAGTTATTA GAGGAAACTA AAACTTCAGG ATTCAGTCCA GATAATTTTT	120
840	CAAAACAAGI IIAGIIAIIA GAGGAAACIA AAACIICAGG AIICAGICCA GAIAAIIIII	120
841	AAAAACTCTA AAACAATGGA CAGGGCTAGA AT	152
842	AAAAACICIA AAACAAIGGA CAGGGCIAGA AI	132
		· · · · · · · · · · · · · · · · · · ·
843	(2) INFORMATION FOR SEQ ID NO:16:	
844	/'\ GEOVERNOR GUARAGERTOG	
845	(i) SEQUENCE CHARACTERISTICS:	
846	(A) LENGTH: 152 base pairs	
847	(B) TYPE: nucleic acid	
848	(C) STRANDEDNESS: single	
849	(D) TOPOLOGY: linear	
850	(ii) MOI DOUI D MVDE abban muslais asid	
851	(ii) MOLECULE TYPE: other nucleic acid	
852 853		
854		
855		
856	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
857	(XI) BEQUENCE BESCRIFTION. BEQ ID NO.10.	
858	TGGGCTCGGC CTGGTGGGGC AGCCACAGCG GGACGCAGTA GTGAAAGTCC AGTTTACTTA	60
859		4 •
860	CAAAACAAGT TTAGTTATTA GAGGAAACTA AAACTTCAGG ATTCAGCAGG GCATGAGGAG	120
861		
862	GCAGCTCCTC ACCCTCCCTT TCTCTTTTGT AC	152
863		
864	(2) INFORMATION FOR SEQ ID NO:17:	· · · · · · · · · · · · · · · · · · ·
865	(2) INFORMATION FOR SEQ ID NO.17;	
866	(i) SEQUENCE CHARACTERISTICS:	
867	(A) LENGTH: 152 base pairs	•
868	(B) TYPE: nucleic acid	
869	(C) STRANDEDNESS: single	
007	(C) DITEMPLED . SINGLE	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/585,023

	INPUT SET: S3	5611.raw
870	(D) TOPOLOGY: linear	
871		
872	(ii) MOLECULE TYPE: DNA (genomic)	•
873		
874		
875		
876		
877	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
878		
879	TGGGCTCGGC CTTGGTGGGG CAGCCACAGC GGGACGCAAG TAGTGAGGGC ACTCAGAACG	60
880		
881	CCACTCAGCC CCGACAGGGC ACTCAGAACG CCACTCAGCC CCGACAGGCA GGGCACGAGG	120
882		
883	AGGCAGCTCC TCACCCTCCC TTTCTCTTTT GT	152
884		